Sheet $\underline{1}$ of 10JAN 0 9 2001 SERIAL NO. ATTORNEY DOCKET NO. US Dept. of Commerce FORM PTQ 449 09/677,152 Patent and Trademark Office 4115-116 DIV 4 ENT & TRADE APPLICANT Gallo et al. INFORMATION DISCLOSURE STATEMENT **GROUP** FILING DATE 1648 (use several sheets if necessary) October 2, 2000 U.S. PATENT DOCUMENTS FILING DATE IF APPROPRIATE **SUBCLASS PATENT EXAMINER CLASS** NAME **ISSUE DATE** NUMBER INITIAL Katsuragi et al. 8/23/83 4,400,316 AAMcMichael 8/25/87 4,689,222 AB RECEIVED Stevens 9/1/87 4,691,006 AC McMichael 9/8/87 4,692,332 AD JAN 12 2001 Stevens 12/15/87 4,713,366 AE Civin et al. 12/22/87 4,714,680 TECH CENTER 1800/2900 AF McMichael 11/14/89 4,880,626 AG FOREIGN PATENT DOCUMENTS TRANSLATION **PUBLICATION** DOCUMENT NO **SUBCLASS** YES **CLASS COUNTRY** DATE NUMBER PCT 3/22/90 WO 90/02759 AH PCT 7/11 /91 WO 91/09872 ΑI PCT 12/23/92 WO 92/22654 AJ **PCT** 9/15/94 WO 94/20859 AK **PCT** 10/27/94 WO 94/24148 AL **PCT** 2/15/96 WO 96/04008 AM MOTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.) Abrams et al., 1983, J. Cell. Biochem. Supply A:53 AN Aizawa and Tavassoli, 1986, Int. J. Cell Cloning 4:464-471 AO Andrews et al., 1986, Blood 67;842-845 AP Andrews et al., 1986, Blood 68;1030-1035 AQ Ballem et al., 1987, J. Clin. Invest. 80:33-40 AR Ballem et al., 1992, New Eng. J. Med 327:1779-1784 AS Barre-Sinoussi et al., 1983 Science 220:868-870 AT Bauman et al., 1986, J. Cell Physiol. 128:133-142 $\mathbf{A}\mathbf{U}$ Continue on Page 2 DATE CONSIDERED

EXAMINER

EXAMINER: Initial if chation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

9 2001	1449	US Dept. of Contract Patent and Trace	ommerce demark Office	ATTORNEY DOCKET NO. 4115-116 DIV 4		SERIAL NO 09/677,152	•
				APPLICANT Gallo et al.			
FORMAT	ION DIS	CLOSURE STA	ATEMENT (sary)	FILING DATE		GROUP	
(us			1	October 2, 2000 PATENT DOCUMENTS			
		DATENIT I	<u>U.S.</u>	TATENT BOCONE		CLIDCI ACC	FILING DATE IF APPROPRIATE
CAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	
S	AV	4,966,753	10/30/90	McMichael			
1	AW	5,004,681	4/2/91	Boyse et al.			
	AX	5,141,867	8/25/92	Ivanoff et al.			
	AY	5,192,553	3/9/93	Boyse et al.			
	AZ	5,380,668	1/10/95	Herron			
	BA	5,451,527	9/19/95	Sarin et al.			
	BB	5,610,136	3/11/97	McMichael			
		3,010,10	FORE	IGN PATENT DOCUMENTS			TRANSLATION
		DOCUMENT	PUBLICATION		CLASS	SUBCLASS	YES NO
		NUMBER	DATE	COUNTRY			
10	BC	0 049 898 B2	4/21/82				
Ofs	BD	0 142 387 A1	5/22/85	EP		1	
	BE	1					
	BF						
	BG				_		
	BH					Number Etc	.)
		OTHER DOC	UMENTS (Incl	uding Author, Title, Journal-	Date, Page	Number, Etc)
1.	BI	Bellet et al.,	984, Endocrinol	logy 115:330-330			
1	BJ	Berchtold and	d Wenger, 1993,	Blood 81:1246-1250			
-	BK	Bidart et al.,	1987, Mol. Imm	unology 24:339-345			
	BL			nem. 262:15483-15489			
	BM	Bidart et al.,	1990, Science 24	48:736-739	10.10		
	BN			Res. Hum. Retroviruses 11:1335	-1342		
	ВО		., 1983, Blood 6				
	BP	Bolognesi, 1	993, Semin. Imn	nunol. 5:203-214	27.20		
	BQ	Bourinbaiar	and Nagorny, 19	992, FEMS Microbiol. Lett. 96:2	27-30 		
				Continue on Page 3			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

JAN 0 8 2	PFICE DO			The state of the s
ORM PTO-1	449F	US Dept. of C Patent and Tr	ATTORNEY DOCKE 4115-116 DIV 4	
				APPLICANT Gallo e
INFORMATI (us	ON DIS	SCLOSURE ST Il sheets if nece	ssary)	FILING DATE October 2, 2000
	<u> </u>		U.S	. PATENT DOCUMEN
EXAMINER		PATENT NUMBER	ISSUE DATE	NAME
INITIAL	BR	5,677,275	10/14/97	Lunardi-Iskandar et a
	BS	5,700,781	12/23/97	P.J. Harris
	BT	5,811,390	9/22/98	A.S. Bourinbaiar
	BU	5.614.612	3/25/97	Haigwood et al.
	BV	5,494,899	2/27/96	Kincade et al.
	BW	5508,261	4/16/96	Moyle et al.
	BW BX	5508,261 5,635,599	4/16/96 6/3/97	Moyle et al. Pastan et al.

SERIAL NO. KET NO. 09/677,152 lo et al. GROUP ENTS FILING DATE IF APPROPRIATE **SUBCLASS CLASS** t al. 008 514 4,/02,913 Stevens 8/30/88 4,767,842 BZStevens 8/8/89 4,855,285 CA Talwar 7/17/79 4,161,519 CB Talwar 10/25/88 4,780,312 CC OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.) Bourinbaiar and Nagorny, 1992, FEBS Microbiol. Lett. 309:82-84 CD Bourinbaiar and Lee-Huang, 1995, Immunol. Lett. 44:13-17 CE Braunstein et al., 1978, J. Clin. Endorcrinology and Metabolism 47:326-332 CF Broxmeyer et al., 1984, J. Clin Invest. 73:939-953 CG Broxmeyer, 1983, CRC Critical Reviews in Oncology/Hematology 1:227-257 CH Broxmeyer, 1982, J. Clin Invest. 69:632-642 CI Busch et al., 1987, Blut 54:179-188 CJCain at al., 1986, Transplantation 41:22-25 CK Continue on Page 4 DATE CONSIDERED **EXAMINER**

EXAMINER: Initial is citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- 1	4000	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
FO	RM PTO-1449 U	S Copt. of Comme	c e
. •	P	atent and Tapeth far	k Offic
	& TRADE		

ATTORNEY DOCKET NO. 4115-116 DIV 4

SERIAL NO. 09/677,152

APPLICANT Gallo et al.

INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)

EXAMINER

FILING DATE October 2, 2000 GROUP

		October 2, 2000 OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)							
NAME OF THE PARTY		THER DOCUMENTS (Including Author, Title, Journal Date, Lago June 2							
EXAMINER NITIAL		10.01.07							
10	CL	Cao at al., 1982, J. Med. Genet. 19:81-87							
01	CM	Caraux et al., 1985, J. Immun. 134:835-840							
	CN	Chak et al., 1988, J. Clin. Oncol. 6:863-867							
	СО	Chen et al., 1992, AIDS 6;533-539							
	СР	Clavel et al., 1986, Science, 233-343-346							
	CQ	Cocchi et al., 1995, Science, 270-1811-1815							
	CR	Daffos, et al., 1983, am. J. Obstst. Gynecol. 146:985-987							
	CS	Daffos, et al., 1985, am. J. Obstst. Gynecol. 153:655-660							
CT CU CV		Dalgleish et al., 1984, Nature 312: 763-767 De at al., 1997, J. Clin. Invest. 99:1484-1491 Delli-Bovi et al., 1986, Cancer Res. 46:6333-6338							
								CW	Deshmukh et al., 1994, J. Clin. Immunol. 14:162-168
								CX	Dexter et al., 1977, J. Cell. Physiol. 91:335-344
	CY	Dickie et al, 1991, Virology, 185:109-119							
	CZ	Dirnhofer et al. 1993, FASEB J. 7:1381-1385							
	DA	Dirnhofer et al. 1994, J. Endocrinology 141:153-162							
	DB	Emerson et al., 1985, J. Clin. Invest. 76:1286-1290							
	DC	Ensoli et al., 1989, Science 243:223-226							
	DD	Erickson, 1990, Science 249:527-533							
	DE	Evans et al., 1991, J. Immunotherapy 10:39-50							
	DF	Ferrero et al., 1983, Proc Natl. Acad. Sci. USA 80:4114							
	DG	Ferrero et al., 1986, Cancer Res. 46:975-980							
7	DH								
	DI	Friedman-Kien et al., 1981, J. Am. Acad. Dermatol. 5:468-473							
	DJ	Gallo et al., 1984, Science 224:500-503							
	DK	Gelmann et al., 1987, Am. J. Med. 82:456-462							
	1	Continue on Page <u>5</u>							
EXAMINE	ER	DATE CONSIDERED							

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through



ATTORNEY DOCKET NO. 4115-116 DIV 4

APPLICANT Gallo et al.

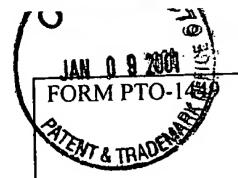
SERIAL NO. 09/677,152

INFORMATION DISCLOSURE STATEMENT

(use several sheets if necessary)

FILING DATE October 2, 2000 GROUP

DM Gill DN Gill DO Gill DP Gill DP Gill DP Gill DP Gol DR Guy DR Guy DR Har DU Her DV	er et al., 1985, Archs. Path. Lab. Met. 109:138-145 et al., 1990, Am. J. Clin. Oncol. 13:315-319 et al., 1991, Am. J. Med. 90:427-433 et al., 1994, AIDS, 8: 1695-1699 et al., 1996, New Eng. J. Med. 335:1261-1269 dman et al., 1980, Br. J. Haematol. 45:221-223 ader et al., 1987, Nature 326:662-669 merskjold and Rekosh, 1989, Biochem. Biophys. ris, 1995, Lancet 346:118-119 mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	Acta 989:269-280 680-690 22:297-304				
DL Gell DM Gill DN Gill DO Gill DP Gill DQ Gol DR Guy DS Har DT Har DT Har DU Her DV Her DW H	et al., 1990, Am. J. Clin. Oncol. 13:315-319 et al., 1991, Am. J. Med. 90:427-433 et al., 1994, AIDS, 8: 1695-1699 et al., 1996, New Eng. J. Med. 335:1261-1269 dman et al., 1980, Br. J. Haematol. 45:221-223 ader et al., 1987, Nature 326:662-669 merskjold and Rekosh, 1989, Biochem. Biophys. ris, 1995, Lancet 346:118-119 mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	Acta 989:269-280 680-690 22:297-304				
DN Gill DO Gill DP Gill DP Gill DQ Gol DR Guy DS Har DT Har DU Her DV Her DV Her DX Hey DY Hir DZ Hu EA Hu EA Hu EB Iye EC Jut EC Jut EC Ka	et al., 1991, Am. J. Med. 90:427-433 et al., 1994, AIDS, 8: 1695-1699 et al., 1996, New Eng. J. Med. 335:1261-1269 dman et al., 1980, Br. J. Haematol. 45:221-223 ader et al., 1987, Nature 326:662-669 merskjold and Rekosh, 1989, Biochem. Biophys. ris, 1995, Lancet 346:118-119 mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DO Gill DP Gill DQ Gol DR Guy DS Har DU Her DU Her DV Her DY Hir DY Hir DZ Hu EA Hu EB Iye EC Jut EC Jut EE Ka EE	et al., 1994, AIDS, 8: 1695-1699 et al., 1996, New Eng. J. Med. 335:1261-1269 dman et al., 1980, Br. J. Haematol. 45:221-223 ader et al., 1987, Nature 326:662-669 merskjold and Rekosh, 1989, Biochem. Biophys. ris, 1995, Lancet 346:118-119 mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DP Gill DQ Gol DR Guy DS Har DT Har DU Her DV Her DW Her DX Her DY Hir DZ Hu EA Hu EB Iye EC Jut ED Ka EF Ka EF Ka EF Ka EG Ka EH Ke	et al., 1996, New Eng. J. Med. 335:1261-1269 Iman et al., 1980, Br. J. Haematol. 45:221-223 Imader et al., 1987, Nature 326:662-669 Immerskjold and Rekosh, 1989, Biochem. Biophys. Iris, 1995, Lancet 346:118-119 Imans, 1995, AIDS Res. Hum. Retroviruses S:96 Imans et al., 1995, Cell. Mol. Biol. 3:357-364 Ishko et al., 1979, Lancet 1:945-947 Immsfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 60 Immans and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DQ Gol DR Guy DS Har DT Har DU Her DV Her DW Her DX Hey DY Hir DZ Hu EA Hu EB Iye EC Jut ED Ka EE Ka EF Ka EF Ka EG Ka EH Ke	dman et al., 1980, Br. J. Haematol. 45:221-223 ader et al., 1987, Nature 326:662-669 merskjold and Rekosh, 1989, Biochem. Biophys. ris, 1995, Lancet 346:118-119 mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DR Guy DS Har DT Har DU Her DV Her DW Her DX Hey DY Hir DZ Hu EA Hu EB lye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	ader et al., 1987, Nature 326:662-669 Immerskjold and Rekosh, 1989, Biochem. Biophys. Iris, 1995, Lancet 346:118-119 Imans, 1995, AIDS Res. Hum. Retroviruses S:96 Imans et al., 1995, Cell. Mol. Biol. 3:357-364 Ishko et al., 1979, Lancet 1:945-947 Immsfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 Indicate the second s	680-690 22:297-304				
DS Har DT Har DU Her DV Her DX Her DX Her DX Her DX Her DX Her DX Hur EB Iye EC Jut ED Kar EE Kar EF	merskjold and Rekosh, 1989, Biochem. Biophys. ris, 1995, Lancet 346:118-119 mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. 6 okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DT Har DU Her DV Her DW Her DX Her DX Her DX Her DX Her DX Hur DZ Hur EA Hur EB Iye EC Jut ED Ka EE Ka EF KA	mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DT Har DU Her DV Her DW Her DX Her DX Her DX Her DX Her DX Hur DZ Hur EA Hur EB Iye EC Jut ED Ka EE Ka EF KA	mans, 1995, AIDS Res. Hum. Retroviruses S:96 mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	680-690 22:297-304				
DV Here DW Here DX Here DY Hire DZ Hu EA Hu EB Iye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	mans et al., 1995, Cell. Mol. Biol. 3:357-364 shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	22:297-304				
DW Here DX Here DY Hire DZ Hu EA Hu EB Iye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	shko et al., 1979, Lancet 1:945-947 msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	22:297-304				
DX Hey DY Hir DZ Hu EA Hu EB Iye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	msfield et al., Am. J. Clin. Nutr. 36:Oct. 1982, p. okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	22:297-304				
DY Hir DZ Hu EA Hu EB Iye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	okawa et al., 1982, Clin. Immunol. Immunopathol. ang and Terstappen, 1992, Nature 360:745-749	22:297-304				
DZ Hu EA Hu EB lye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	ang and Terstappen, 1992, Nature 360:745-749					
EA Hu EB Iye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke						
EB Iye EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke						
EC Jut ED Ka EE Ka EF Ka EG Ka EH Ke	Hutchinson et al., 1978, J. Biol. Chem. 253:6551-6560					
ED Ka EE Ka EF Ka EG Ka EH Ke	et al. 1992, Int. J. Pepetide Protein Res. 39:137-	144				
EE Ka EF Ka EG Ka EH Ke	ner et al., 1985, Br. J. Haematol. 61:739-745					
EF Ka EG Ka EH Ke	nn et al., 1990, am. Ann. Med. 112:254-261					
EG Ka EH Ke	dana et al., B. J. Cancer 1993 67:686-692					
EH Ke	z et al., 1985, Leukemia Res. 9:191-198					
EI Ke	z et al., 1986, Leukemia Res. 10:961-971					
	ating et al., 1984, Blood 64:1159-1162					
	stler et al., 990, Science 248:1109-1112					
	utmann et al., 1987, Proc. Natl. Acad. Sci. USA 84	4:2038-2042				
	utmann et al., 1988, Biochemistry 27:8939-8944					
EL KI	atzmann et al., 1984, Nature 312:767-768					
	Continue on Page <u>6</u>					
XAMINER	itation considered, whether or not citation is in con	DATE CONSIDERED				



ATTORNEY DOCKET NO. 4115-116 DIV 4

APPLICANT Gallo et al.

SERIAL NO. 09/677,152

INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)

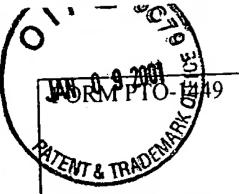
FILING DATE

GROUP

(us	se sever	october 2, 2000						
		OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)						
KAMINER								
ITIAL	EM	Kodo et al., 1984, J. Clin. Invest. 73:1377-1384						
1	EN	Kopp et al., 1993, AIDS Res. Hum. Retroviruses 9:267-275						
	EO	Korbling et al., 1986, Blood 67:529-532						
	EP	Kornyei et al., 1993, Biol. Reprod. 49:1149-1157						
		 Krown et al., 1990, Ann. Intern. Med. 112:812-821 Lajtha, 1979, Differentiation 14:23-34 Lajtha, 1979, Blood Cells 5:447-455 						
	EQ							
	ER							
	ES							
	ET	Laphorn et al., 1994, Nature 369:455-461						
	EU	Leary et al., 1987, Blood 69:953-956						
	EV	Letvin et al., 1990, J. AIDS 3;1023-1040						
	EW							
	EX							
	EY							
	EZ							
1111	FA							
	FB							
	FC							
	FD	Maddon et al., 1986, Cell 47:333-348	43-567					
	FE							
	FF							
	FG							
	FH							
	FI	Mitsuya et al., 1991, Science 249:1533-1544						
	FJ	Moore et al., 1980, Blood 55:682-690						
	FK							
0 = 0	FL							
		Continue on Page 7 DATE CONSIDE	ERED					

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP \$ 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



ATTORNEY DOCKET NO. 4115-116 DIV 4

APPLICANT Gallo et al.

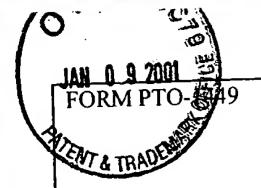
SERIAL NO. 09/677,152

INFORMATION DISCLOSURE STATEMENT

(use several sheets if necessary)

FILING DATE October 2, 2000 GROUP

	O'	THER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)
AMINER ITLAND	1	Nicola et al., 1981, Blood 58:376-386
	1 1	Nijhof et al., 1983, J. Cell. Biol. 96:386-392
	1 1	Nijhof et al., 1984, Exp. Cell. Res. 155:583-587
	FP	Nothdurft et al., 1977, Scand. J. Haematol. 19:470-481
	FQ	Ochs et al., 1981, Pediatr. Res. 15:601
	FR	Paige et al., 1981, J. Exp. Med. 153:154-165
	FS	Paul, 1994, Cell 82:177-182
_	FT	Perelson et al., 1966, Science 15:1582-1586
	FU	Pierce et al, 1991, Rev. Biochem., 50:465-495
	FV	Pillow et at., 1966, New Eng. J. Med. 275:94-97
	FW	Popescu et al., 1995, JNCI 88:450-454
		Popovic et al., 1984, Science 224:497-500
	FX	Prummer et al., 1985, Exp. Hematol. 13:891-898
	FY FZ	Puisieux et al., 1990, Endocrinology 126:687-694
	GA	Raghavacher et al., 1983, J. Cell. Biochem. Suppl. 7A:78
	GB	Reiffers et al., 1986, Exp. Hematol. 14:312-315
	GC	Reisner et al., 1978, Proc. Natl. Acad. Sci. USA 75:2933-2936
	GD	Reisner et al., 1982, Blood 59:360-363
	GE	Robak et al., 1985, Leukemia Res. 9:1023-1029
	GF	Robak et al., 1965, Ecultoma et al., 1965, Ecult
	GG	Ryan et al., 1988, FASEB J. 2:2661-2669
97	GH	Salahuddin et al., 1988, Science 242:430-433
A-	GI	Sarpel et al., 1979, Exp. Hematol. 7:113-120
	GJ	Schall, 1991, Cytokine 3:165-183
	GK	Schooley et al., 1990, ann. Int. Med. 112:247-253
	GL	Sherman, 1992, J. Mol. Endocrinol. 6:951-959
1	GM	
•		Continue on Page 8 DATE CONSIDERED
EXAMIN	NER .	ial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through a line to considered. Include copy of this form with next communication to the applicant.



ATTORNEY DOCKET NO. 4115-116 DIV 4

SERIAL NO. 09/677,152

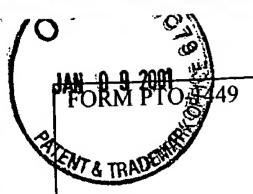
APPLICANT Gallo et al.

INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)

FILING DATE October 2, 2000 GROUP

fo	GN GO GP GQ GR	Smith et al., 1987, Science 238:1704-1707 Smith and Broxmeyer, 1986, Br. J. Haematol. 63:29-34 Stevens et al., 1986, Immunol. Lett. 12:11-18 Strauss et al., 1986, Exp. Hematol. 14:878-886 Strauss et al., 1986, Exp. Hematol. 14:935-945 Terstappen et al., 1992, Leukemia 6:993-1000	Date, Tage (value)						
NITIAL	GO GP GQ GR GS	Smith and Broxmeyer, 1986, Br. J. Haematol. 63:29-34 Stevens et al., 1986, Immunol. Lett. 12:11-18 Strauss et al., 1986, Exp. Hematol. 14:878-886 Strauss et al., 1986, Exp. Hematol. 14:935-945 Terstappen et al., 1992, Leukemia 6:993-1000							
fo	GO GP GQ GR GS	Smith and Broxmeyer, 1986, Br. J. Haematol. 63:29-34 Stevens et al., 1986, Immunol. Lett. 12:11-18 Strauss et al., 1986, Exp. Hematol. 14:878-886 Strauss et al., 1986, Exp. Hematol. 14:935-945 Terstappen et al., 1992, Leukemia 6:993-1000							
	GP GQ GR GS	Stevens et al., 1986, Immunol. Lett. 12:11-18 Strauss et al., 1986, Exp. Hematol. 14:878-886 Strauss et al., 1986, Exp. Hematol. 14:935-945 Terstappen et al., 1992, Leukemia 6:993-1000							
	GQ GR GS	Strauss et al., 1986, Exp. Hematol. 14:878-886 Strauss et al., 1986, Exp. Hematol. 14:935-945 Terstappen et al., 1992, Leukemia 6:993-1000							
	GR GS	Strauss et al., 1986, Exp. Hematol. 14:935-945 Terstappen et al., 1992, Leukemia 6:993-1000							
	GS	Terstappen et al., 1992, Leukemia 6:993-1000							
	9, 1	Thomas et al., 1972, Lancet 1(745):284-289 Tilly et al., 1986, Lancet, July 19 pp. 154-155 To and Juttner, 1987, Br. J. Haematol. 66:285-288 Torres et al., 1987, Immunol. Inv. 16:607-618							
[]	GU								
	GV								
	GW		Fouraine, 1983, Birth Defects 19:139-142						
	GX	Triozzi et al., 1994, Int. J. Oncol. 5:1447-1453 Tulunay et al., 1975, Proc. Natl. Acad. Sci USA 72:4100-4104 Valenti, 1973, Am. J. Obstet. Gynecol. 115:851-853 Van Gemen et al., 1994, J. virol. Methods 49:157-168							
	GY								
	GZ								
	HA								
	HB								
	НС	Varmus et al., 1988, Science 240:1427-1439 Vaslin et al., 1994, AIDS Res. Hum. Retroviruses 10:1241-1250							
	HD								
	HE	Vickery et al., 1983, J. Parasitol. 69:478-485							
	HF	Visser et al., 1984, J. Exp. Med. 59:1576-1590	cademic Press, New York) pp. 25-80						
	HG	Ward et al., 1991, Reproduction in Domestic Animals (Academic Press, New York) pp. 25-80 Weinroth et al., 1995, Infectious Agents and disease 4:76-94							
	НН	Whitlock and Witte, 1982, Proc. Natl. Acad. Sci. USA 79:	:3608-3612						
	HI	Whitlock and Witte, 1982, Proc. Nati. Acad. Sen. Williams et al., 1987, Exp. Hematol. 15:243-250							
	HJ	Williams et al., 1987, Exp. Hemator. 13.2 13 23 5 Winchester et al., 1977, Proc. Natl. Acad. Sci. USA 74140)12-4016						
	HK								
	HL	Xia, 1993, J. Mol. Endocrinol., June 10:337-343 Yarchoan et al., 1989, Proc. Vth Int. Conf. On AIDS, p.56	64						
	НМ								
	HN	Yunis, 1983, Science 221:227-236	DATE CONSIDERED						

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; draw line through



ATTORNEY DOCKET NO. 4115-116 DIV 4

APPLICANT Gallo et al.

SERIAL NO. 09/677,152

`		al sheets if necessary)	1 October 7 7000						
		OTHER DOCUMENTS (Inclu	October 2, 2000 ding Author, Title, Journal	-Date, Page Number, Etc.)					
VA MAINIED		OTHER DOCUMENTS (Include	unig Authory 21000,						
XAMINER NITIAL		Kotler et al., Am. J. Clin. Nutr.	1985 42: 1255-65						
B	HO								
//1	HP	Kotler and Grunfeld, AIDS Wa							
	HQ	Kotler et al., Am. J. Clin. Nutr							
	HR	Lunardi-Iskandar et al., J. Natl	. Cancer Inst 87(13) 974-981						
	HS	Mastrangelo et al., Sem. Oncol 1996 23 (1): 4-21 Mitsuya et al., FASEB 1991, 2369-2381 Ott et al., Am J Clin Nutr 1993; 57:15-19							
	HT								
	HU								
,	HV	Policastro et al., J Biol Chem							
	HW	Russo and Russo, Cancer Lett							
	HW -	Russo and reases,							
	/	1							
	1/	11/2	25/02						
 			/						
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
	- 11 P								

o o som		i 			10	SERIAL NO	Sheet 10	
FORM PTO	Patent and Trademark Office			ATTORNEY DOCKET NO. SERIAL I 4115-116 DIV 4 09/677,15			•	
TA TITHUTE MILE				APPLICANT Gallo et al				
INFORMAT (us	ION DI se severa	SCLOSURE STA	ATEMENT sary)	FILING DATE October 2, 2000		GROUP		
			II.S.	PATENT DOCUMENTS				
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING I IF APPROP	
1.	НХ	5,455,968	Aug. 29, 1995	Blithe et al.	436	510		
1								
								· <u> </u>
								-
	<u> </u>		FORE	IGN PATENT DOCUME	NTS		TRANSL	ATION
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	YES	NC
1/2	HY	0 211 411 A2	25 Feb 1987	Europe				· · · · · · · · · · · · · · · · · · ·
1/4	HZ	04300896	23 Oct 1992	Japan				 -
H	IA	WO87/03487	18 Jun 1987	PCT				
		-						
		/						
	+ '							
		1,						
		OTHER DOC	UMENTS (Incl	uding Author, Title, Jour	nal-Date, Page	Number, Etc	Oncology	23:4-
S	IB	Mastrangelo e	t al., 1996, "Gen	e therapy for human cancer	r; an essay for c	illicians, bon		es". J
en	IC.	1	CO 11400 11400	subunit of human chorionic				
1	ID	Riddell et al.,	1996, "T-cell me	ediated rejection of gene-m	odified HIV-sp	ecitic cytotoxi	c i iympnoc	yies ii

Continue on Page __ EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through

HIV-infected patients", Nat. Med. 2:216-222

FORM PTO-	1449	US Dept. of C	Commerce	ATTORNEY DOCKET NO.		SERIAL NO).		
COKIVI F 10-	-1447	Patent and Tr	ademark Office	4115-116 DIV 4 P - C,	EIVE	09/677,152		010	
				APPLICANT			1	0	
NFORMATI(ON DI	SCLOSURE ST	ATEMENT	••	1 5 2001		BATEN MA	R 1 3 2007	
				Gallo et al.		GROUP			
(use	severa	al sheets if neces	ssary)	FILING DATE 7 LEN	TER 1600	1/48	K AN	MARKO	
				September 29, 2000		Nor Yet Ass	igned	MABK	
			U.S.	PATENT DOCUMENTS				VO. 4 (1757)	
EXAMINER	T	PATENT			CLASS	SUBCLASS	FILING IF APPRO		
INITIAL		NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS			
	İ								
1	1		FOREI	GN PATENT DOCUMENTS		<u> </u>	TRANSI	ATION	
		DOCUMENT	PUBLICATION	COUNTRY	CLASS	SUBCLASS	YES	NO	
		NUMBER	DATE	COUNTRY	CLASS	00202.102		1	
			:					<u> </u>	
		OTHER DOCU	JMENTS (Inclu	ding Author, Title, Journal-D	ate, Page N	lumber, Etc.)	<u> </u>		
4	, IR	Alfthan et al. (1992) Cancer Res	s. 52: 4628-4633.					
-11	IS	Bagshawe (199	92) Acta Oncol. 3	1: 99-106.					
	IT	Bidart J-M et	al., "Human Cho	orionic Gonadotropin Molecular Forms, Detection, and Clinical Implications.					
		mmx (4 005 (1)	002)						
	IU	Birken, S. et a	l., "Structure of the	ne Human Chorionic Gonadotro	pin .betaS	Subunit Fragm	ent from P	regnancy	
		I I Line II Dadoo	-in alamı 122·572	(1988)					
	IV	Bourinbaiar, A	A.S. et al., "Pregn	ancy hormones, estrogen and pr	ogesterone,	, prevent m v	- I Syllatosi		
		(LCC hote) Descarboyyl Terminus (115-145)." Journal of Biological Chemistry 200:0240 (1991).							
	IW								
	IV	Cole, L.A., et al., "The Deactivation of hCG by Nicking and Dissociation" Journal of Clinical							
	IX	1 1	- A Matakaliam	76·704 (1993)					
	IY	G 1 7	- A stal "The I	Jeterogeneity of Human Choric	onic Gonado	otropin (hCG)	. III. The C	ccurrenc	
]		and Biologica	l and Immunolog	ical Activities of Nicked hCG.	Endocrino	logy 129.1333	(1991).		
	IZ	Curti, Critical	Reviews in Onco	ology/Hematology, vol.14, pp. 4	29-39, 1993	•			
	JA	Danforth, D.N	I., Jr., M.D., "Ho	w Subsequent Pregnancy Affec	ts Outcome	in Women wi	th a Prior b	Breast	
		Cancer." Once	ancer." Oncology 5:23 (1991).						
	JB	Elford et al. (1993) AIDS 7: 16	667-1671.					
	JC	Freireich E.J.	et al "Ouantitat	ive Comparison of Toxicity of	Anticancer	Agents in Mo	use, Rat, H	amster,	
		D 14 1	and Man " Cane	or Chemotherany Reports 2012	19 (1900).			<u></u> _	
	JD	Hirabayashi,	M., M.D., "Early	Gastric Cancer and a Concomi	tant Pregnai				
	-	53:730 (1987). 1. "Amino/Carbo	xyl-terminal Deletion Mutants	of Human (Choriogonado	ropin .beta	" The	
	JE	1 - CD!	laciaal Chamietr	√268·9311 (1993)					
	JF	Huang I et a	I. "Mutagenesis	of the 'determinant loop' region	n of human	choriogonado	tropin .beta	a"	
}	131	Molecular an	d Cellular Endoci	rinology 90:211 (1993).					
	JG	Jain, Scientiff	ic American, pp.	58-65, Jul. 1994.			<u></u>		
	<u></u>			Continue on Page 2					
					DATE	CONSIDERE	D		
EXAMINE	3				l l				
		A				1/25/02	<u></u>		
FKXAMINI	ER: In	nitial if citation of	onsidered, wheth	er or not citation is in conformation	ance with M	I P EP \$⁄609; D	oraw line th	ırougn	
citation if no	ot in co	onformance and	not considered. I	nclude copy of this form with r	ext commu	nication to the	аррисант.		

CFORM PTO	7-1440	US Dept. of Commerce	ATTORNEY DOCK	ET NO		SERIAL NO	<i>)</i> .		
TOKWIIIC	J-1447	Patent and Trademark Office	44.5 116 DIV 4	$\overline{\Sigma}$	3	-09/677,152	, /	07	
			4115-116 DIV 4 APPLICANT	CENT.	- 20	-09/01/,13/	4		
DIEODMAT	TON DI	SCLOSURE STATEMENT	APPLICANT	ŧ	5	$\overline{\mathbb{Q}}$	B MA	73	
NFURWIA	ION DI	SCEOSCIE STITZ	Gallo et al.	·		CROUD		-3007	
(us	se sever	al sheets if necessary)	FILING DATE	<u>8</u>	001	GROUP	E.	·	
			September 29, 2000	90		Not Yet As	signed W	BK OFF	
	JH	Kumar, S. et al., "Necrosis and	Inhibition of Growth o	Human 1	Lung Tu	mor by Antial	haHuman		
18		Chorionic Gonadotropin Antibo	dy." J. Natl Cancer Ins	1.84:42 (1992).	or cDNA: Varia	ents Lacking		
	JI	Loosfelt, H. et al., "Cloning and Transmembrane Domain." Scien	Sequencing of Porcing	: LH-IICC) Kecepe	.OI		· · · · · · · · · · · · · · · · · · ·	
	JJ	Mann et al, Scand. J. Clin. Lab.	Invest., Suppl. vol. 21	6, pp. 97	-104, 19	93.			
	JK	Marcillac et al. (1992) Cancer F							
		McForland V.C. et al. "Lutron	in-Choriogonadotropir	Receptor	r: An Ur	usual Member of	of the G Pro	tein-	
	JL	McFarland, K.C. et al., "Lutropin-Choriogonadotropin Receptor: An Unusual Member of the G Protein-Coupled Receptor Family." Science 245:494 (1989).							
	JM	Tartil ' D4 -1. "Over expression and characterization of recombinant beta subulit of the number efforts and							
		gonadotropin hormone synthesi	ized in insect cells infected with a genetically eligineered outers.						
	DI	Journal of Biochemistry & Biog Northfeldt et al. (1991) Hemato	onysics 29.313 (1992).	of North	Americ	a 5: 297-310.			
	JN	Norumetat et al. (1991) Herraria bate	betaHuman Chorionic Gonadotropin Production by a Human Hepatoma Cell						
	lo	The (EOCHE) Inclation and It	mmunochemical Characterization. Endocrinology 120.339 (1907).						
	JP	Ozturk, M. et al., "Physiological Studies of Human Chorionic Gonadotropin (hCG), .alpha.hCG, and .beta.hCG as Measured by Specific Monoclonal Immunoradiometric Assays." Endocrinology 120:549							
.beta.hCG as Measured by Specific Monoclonal Immunoration						ssays. Endocrin	ology 120.5		
	IO	Ross et al., Immunology Today	vol. 11, No. 6, 1990.						
	JQ	Siemen Redent Tumor Models	s in Experimental Cano	er Therap	y, Edite	d by Kallman, F	ergamon Pr	ess, pp.	
	JR	Siemen, Rodent Tumor Models in Experimental Cancer Therapy, Edited by Kallman, Pergamon Press, pp. 12-15, 1987.							
	JS	To the Differential secretion and alycosylation of recombinant human chorlonic gonadou opin							
		(.beta.hCG) synthesized using different promoters in the baculovirus expression vector system." Gene							
	JT	(Netherlands) 131:261 (1993). Stenman et al. (1993) Scand. J. Clin. Lab. Invest. Suppl. 216: 42-78.							
		Steinhair et al. (1999) et al.	hormone action and re	ceptors, I	M. Asco	i, Ed., CRC Pre	ss, Boca Ra	ton FL,	
	JU	Strickland et al. in Luteinizing hormone action and receptors, M. Ascoli, Ed., CRC Press, Boca Raton FL, 1985, p. 1.							
	JV	Trott, Rodent Tumor Models in Experimental Cancer Therapy, Edited by Kallman, Pergramon Press, pp. 6-							
		11, 1987. Ward et al. in Reproduction in Domestic Animals, 4th ed., Cuppos, PT, ed., pp. 25-80, Academic Press, NY							
	JW	(1001)							
	JX	Wass, M. et al., "Response of	lymphocytes from cand	er patien	ts to hun	nan *chorionic*	gonadotrop	hin",	
		T == 4 (E==land) 1.9004.171	(1077)						
	JY	Yano, T. et al., "Inhibition of antagonistic analogues of lutei	human epithelial ovaria	in cancer ing hormo	one." Pro	oc. Natl. Acad. S	Sci. USA 91	:1701	
		(1994).	mizing normone releas						
		(100.).	Continue on Page		4				
EXAMINE	ER		<u> </u>		DAT	E CONSIDERE	ED		
LYMMIN	J. 1	1 Atinh				11/25/02			
TOTAL A 470 11	- T - 1	ial if citation considered, whethe	r or not citation is in co	nforman	ce with I	MPEP § 609; DI	aw line thro	ugh	
LEXAMINI	ck: Init	onformance and not considered.	to the come of this fo	m with n	evt com	munication to th	e applicant.		

							SERIAL NO	Shee	
GEODI (D	TO 1	440	US Dept of C	ommerce	ATTORNEY DOCKET NO.		SERIAL NO		· •
CFORM PTO-1449 US Dept. of Commerce Patent and Trademark Office			Patent and Tra	demark Office			00//77 150	AUG CENI	
					4115-116 DIV 4		09/677,152	古 8	
E			SOLOGUES CT	A TEMENIT	APPLICANT				t :
INFORM	ATIO	N DIS	SCLOSURE STA	AIDMENT	Gallo et al.			200	
(use several sheets if necessary)					FILING DATE		GROUP	2001 1600/2900	
2001	`				October 2, 2000		1648	<u> </u>	
				U.S.	PATENT DOCUMENTS		·	THE INC	DA
EMARK EXAMINER			PATENT ISSUE DAT		NAME	CLASS	SUBCLASS	FILING DA' IF APPROPRI	
INITIAL	-	IZ A	NUMBER	ISSUE DATE 5/6/80	Stevens	424	177		
P	1	KA	4,201,770	3/0/60	J. C.				
		1							
	+								
					TO CHIMENTS				_
			DOCUMENT	FORE PUBLICATION	IGN PATENT DOCUMENTS			TRANSI	LAT
			NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	;
1	,	KB	WO9108228	6/13/91	PCT	7	10		1
		KC	WO9749373	12/31/97	PCT	A61K		X	<u></u>
		KD	WO9906438	2/11/99	PCT	14	00	X	
			WO9222568	12/23/92	PCT	3	00	X	T
		KE		5/27/99	PCT	15	62	X	1
		KF ——	WO9925849			7	06	 	+
		KG	0323769	11/25/88	Europe				
								1	+
								Ļ	
			OTHER DOC	UMENTS (Incl	uding Author, Title, Journal-	Date, Page	Number, Etc	.) USI-II) Rev	 /eal
		KH	Fink, et al., A	mino Acid Seque	ence Elucidation of Human Acrors are Structurally Related to β	-subunits of	Glycoprotein	Hormones,	FE
1	4		Letters Volum	otemase minote ne 270, number	1, 2, ppg. 222-224				
\- <i>\(\(\)</i>									
V			/						
	·	-/							
	. <u> </u>								
					Continue on Page				
					Continue on 1 age	TDATE	CONSIDERE	D	
EXAM	INER		1-11			DATE	/ /		
		1	Murk	on /	er or not citation is in conformat		125/02		

SERIAL NO. ATTORNEY DOCKET NO. US Dept. & Commerce CFORM PTO-1449 Patent and Trademark Office RECEIVED 09/677,152 4115-116 DIV4 **APPLICANT** JAN 18 2001 INFORMATION DISCLOSURE STATEMENT Gallo et al. GROUP FILING DATE (use several sheets if necessary) TECH CENTER 1600/2900 1642 October 2, 2000 U.S. PATENT DOCUMENTS FILING DATE IF APPROPRIATE PATENT **EXAMINER SUBCLASS CLASS ISSUE DATE** NAME NUMBER INITIAL FOREIGN PATENT DOCUMENTS TRANSLATION **PUBLICATION** DOCUMENT NO YES **SUBCLASS CLASS COUNTRY DATE NUMBER** PCT 31 Jul 1986 WO 86/04241 IE **PCT** 14 Nov 1991 WO 91/16921 IF OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.) Cole, L.A. "The heterogeneity of human gonadotropin (hCG). III. The occurrence and biological and IG immunological activities of nicked hCG," Endocrinology, 1991 Sep, 129 (3):1559-1567 Cole, L.A. et al., "The biological and clinical significance of nicks in human chorionic gonadotropin and its IH free beta-subunit," Yale J Biol Med 1991 Nov-Dec; 64 (6):627-37 Cole, Laurence A. "hCG, Its Free Subunits and Its Metabolites -- Roles in Pregnancy and Trophoblastic II Disease," Journal of Reproductive Medicine, 1998 Jan, 43 (1): 3-10 Creighton, 1993, Proteins, Structures and Molecular Principles (W.H. Freeman & Co., New York) pp.34-49 IJ Dirnhofer, S. et al., "Functional and immunological relevance of the COOH-terminal extension of human chorionic gonadotropin beta: implications for the WHO birth control vaccine," FASEB J 1993 Nov; ΙK 7(14):1381-1385 Ho, H.H. et al., "Characterization of human chorionic gonadotropin peptide variants with a radio-receptor assay using recombinant human luteinizing hormone/chorionic gonadotropin receptors," Early Pregnancy IL 1997 Sep, 3 (3):204-12 Iyer, K.S. et al., "Search for peptide immunogens of the beta-subunit of human chorionic gonadotropin (hCG) capable of eliciting hormone specific and neutralizing antisera. Identification of an undecapeptide IM eliciting hCG-specific antisera," Int J Pept Protein Res 1992 Feb: 39(2):137-44 James, John S. "New Approaches to HIV Treatment: Interview with Robert Gallo, M.D.," Aids Treatment IN News, Dec 19, 1997, Issue 285, pp.1-7 (www.immunet.org) Kardana, A. et al., "Human chorionic gonadotropin beta-subunit nicking enzymes in pregnancy and cancer IO patient serum," J Clin Endocrinol Metab, 1994 Sep, 79 (3):761-7 "Chorionic Gonadotropin," U.S. Pharmacopia (USP23) IP Kobata, Akira et al., "Structure, pathology and function of the N-linked sugar chains of human chorionic IQ gonadotropin," Biochemica et Biophysica Acta 1455 (1999) 315-326 Continue on Page _____ DATE CONSIDERED **EXAMINER** 11/25/12

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.